Declassified in Part - Sanitized Copy Approved for Release @ 50-Yr2013/04/29 : CIA-RDP82-00047R000100450008-2 CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT COUNTRY USSR/Germany (Soviet Zone) Miscellaneous Information on Soviet SUBJECT **Ordnance PLACE** NO. OF ENCLS. 50X1 ACQUIRED (LISTED BELOW) DATE SUPPLEMENT TO 50X1 ACQUIRED REPORT NO. 50X1 DATE OF INFORMATION THIS IS UNEVALUATED INFORMATION The AZP-47 50X1 in June 1951 50X1 a new aiming device, the AZP-47 (Avtomaticheskaya Zenitnaya 50X1 Pritsel - Automatic AAA sight, model 1947), previously used only in the USSR, had been brought into Germany. 50X1 it is far better than the PUAZO-3 (Pribor Upravleniya Artileriskym 50X1 Zenitmym Ognyom - AAA Director) or the AZP-39 (Automatic AAA sight, model 1939) in that the controls are arranged for more expeditious 50X1 handling and the gunner can make slight corrections by observing the shellbursts. 50X1 2. 50X1 The speed computer, distance computer and computer of angle of dive and pitch are the automatic features of the AZP-47. 50X1 3₊ The speed computer is changed to compute data on airplane speed up to 100 km an hour, the AZP-39 could not compute data on planes above 500-600 km an hour. The AZP-17 enables the gunner himself to make adjustments for elevation and deflection, thus eliminating the work of a gun crew many who 50X1 worked on deflection adjustment when the AZP-39 is used. CLASSIFICATION SECRET/SECURITY INFORMATION DISTRIBUTION 50X1

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- (c) Only one gunner (sighting device operator) is required for the gun and there is only a single seat for a gunner, whereas present AA guns require two gunners and have two seats for them.
 - (d) The mount for the gun is approximately the same as that of the 37-mm AA guns, model 1939.

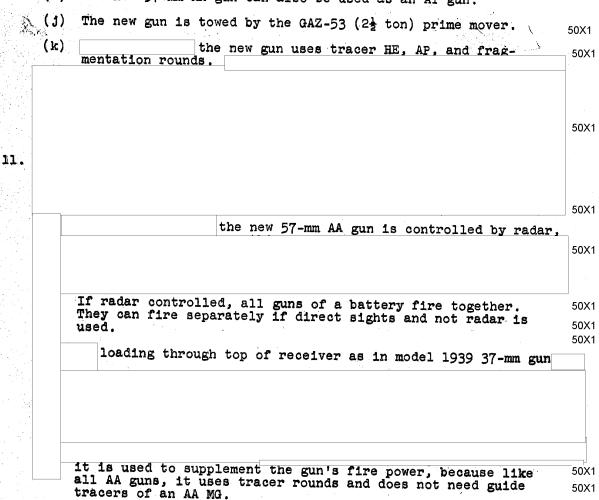
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(e) Ammunition feed is from a clip of ten rounds (present 37-mm clips holds five rounds) in which the rounds are staggered /as in the clip for the US .30 caliber carbine/.

- (f) The new gun has a traverse of 360 degrees. Maximum elevation from the horizontal is 85 degrees and the maximum depression from the horizontal is 10 degrees.
- (g) Muzzle velocity of the new gun (using tracer HE projectiles) is 1200 meters per second. Present 37-mm AA guns have a velocity of about 900 meters per second and 85-mm AA guns have a velocity of about 950 meters per second.
- (h) The cyclic rate of fire of the new gun is higher than that of present guns but ______ could not give ____ the exact cyclic 50X1 rate. The present actual cyclic rate of 37-mm AA guns is 60-80 rounds per minute whereas the factory-rated cyclic rate is 160-180 rounds per minute. _____ the actual _____ 50X1 rate of fire of the new gun will not exceed 100 rounds per minute as technical regulations require a change of barrels after firing each 100 rounds.
- (1) The new 57-mm AA gun can also be used as an AT gun.



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For reasons of secrecy, the Soviet troops in the Soviet Zone of Germany have no new weapons. They use old lendlease equipment and obsolete weapons whereas, the Soviet 50X1 Army in the USSR has all new weapons. Miscellaneous Ordnance 14. With the 37-mm gun, separate range finders, similar to the German type, are used.

PUAZO-3 director is used with the Soviet 85-mm AA gun.

105-mm AA guns are used for fixed defenses. whether or not these are captured German pieces put into use by the Soviets. there are 90-mm and 100-mm AA guns.

the nine kilometer range of the 85-mm AA gun is sufficient for AA purposes, therefore larger caliber AA guns are not necessary. Further, speed, all important in AA fire, would be lost in handling heavy rounds.

50X1 Eleven men are required to operate a PUAZO-3 and its ballistic computer.

50X1 the 85-mm AA gun can be adapted to radar control but at present height finders are used instead of radar.

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50X1 50X1 very few troops have had training It is not in general use in the field. in radar. 50X1 the Soviet Navy had various types of radar.
Radar is quite new to the Russians and most of the activity 50X1 in this field has centered around developing and testing radar equipment of Soviet design. 50X1 50X1 50X1 50X1 in the opinion of most AAA officer, AA MGs 50X1 are obsolete because they are not made to fire on planes of modern speed. short rounds and 50X1 breech malfunctions occur frequently. The Tokarev Model 1940 rifle did not function well. The 50X1 least amount of dirt resulted in jamming. Malfunctions were also caused by oil inside the gun freezing at low temperatures.

the Tokarev Model 1940 was replaced by the PPSh 43 and the Mosin-Nagant Model 1938 carbine as well as by the PPSh 41. 50X1

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Enclosure (A): Three Sketches as follows:

Sketch 1.... Mobile Type Early Warning Radar Antenna Sketch 2.... Location of Lamps for Night Illumination Sketch 3.... Conception of the Collimator and 50X1 Reticle of the AZP-47